

CLAIMS:

1. A multichannel reproducing apparatus in which audio signals from a plurality of channels are processed, and processed audio signals of said plurality of channels are supplied to and reproduced on loudspeakers respectively disposed for each one of said plurality of channels, said multichannel reproducing apparatus comprising:

a loudspeaker drive section for driving each one of loudspeakers by imparting a specific delay time to an audio signal on each one of said plurality of channels;

a test tone generating section for generating a test tone used to measure a distance between said loudspeakers and supplying said test tone thus generated to one of said loudspeakers;

a transmission time measuring section for measuring a time period taken from a time when said test tone is generated by said one of said loudspeakers until a time when said test tone is received by other loudspeakers, thus obtaining a transmission time between loudspeakers; and

a loudspeaker position calculating section for calculating a coordinate position of each one of said loudspeakers based upon said transmission time between loudspeakers.

2. A multichannel reproducing apparatus in which audio signals from a plurality of channels are processed, and processed audio signals of said plurality of channels are supplied to and reproduced on loudspeakers respectively disposed for each one of said plurality of channels, said multichannel reproducing apparatus comprising:

a loudspeaker drive section for driving each one of loudspeakers by imparting a specific delay time to an audio signal on each one of said plurality of channels;

a test tone generating section for generating a test tone used to measure a distance between said loudspeakers and supplying said test tone thus generated to one of said loudspeakers;

a transmission time measuring section for measuring a time period taken from a time when said test tone is generated by said one of said loudspeakers until a time when said test tone is received by other loudspeakers, thus obtaining a transmission time between loudspeakers;

a loudspeaker position calculating section for calculating a coordinate position of each one of said loudspeakers based upon said transmission time between loudspeakers;  
and

a listening position input section for inputting a listening position in relation to a coordinate position calculated by said loudspeaker position calculating section.

3. A multichannel reproducing apparatus in which audio signals from a plurality of channels are processed, and processed audio signals of said plurality of channels are supplied to and reproduced on loudspeakers respectively disposed for each one of said plurality of channels, said multichannel reproducing apparatus comprising:

a loudspeaker drive section for driving each one of speakers by imparting a specific delay time to an audio signal on each one of said plurality of channels;

a test tone generating section for generating a test tone used to measure a distance between said loudspeakers and supplying said test tone thus generated to one of said loudspeakers;

a transmission time measuring section for measuring a time period taken from a time when said test tone is generated by said one of said loudspeakers until a time when said test tone is received by other loudspeakers, thus obtaining a transmission time between loudspeakers;

a loudspeaker position calculating section for calculating a coordinate position of each one of said loudspeakers based upon said transmission time between loudspeakers;  
and

a listening position input section for inputting a listening position in relation to a coordinate position calculated by said loudspeaker position calculating section,

wherein said loudspeaker position calculating section calculates a transmission time or a distance between said listening position and each one of said loudspeakers based upon said listening position.

4. The multichannel reproducing apparatus according to Claim 3, a delay time imparted to said loudspeaker drive section is calculated based upon said transmission time or distance which is between said listening position and each loudspeaker and calculated by said loudspeaker position calculating section.